

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (Currently amended): A backup processing method for backing up data to
2 be used by a data-processing computer system, the method comprising the steps of:
3 selecting resources in a usable state from a plurality of resources necessary for
4 backing up data, the data to be used by the data-processing computer system and stored in a
5 storage system thereof;
6 selecting switches in a usable state from a plurality of switches necessary for
7 forming routes among the selected resources;
8 determining which of the selected resources and selected routes are secure;
9 securing one group of the selected resources and selected routes as a first path
10 between the storage system and a first destination for backup and another group of the selected
11 resources and selected routes as a second path between the storage system and a second
12 destination different from the first destination;
13 executing backup processing by using the first path and a backup instruction
14 command set having a plurality of backup commands, each backup command backing up a
15 different portion of the data, every portion of the data having a corresponding backup command,
16 the backup processing including executing one or more of the backup commands;
17 detecting if a problem occurs in the first path based on a result of execution of one
18 of the backup commands in the backup instruction command set;
19 changing from the first path to the second path if a problem is detected; and
20 continuing execution of the backup processing by using the second path and
21 executing backup commands in the backup instruction command sets that have not yet been
22 executed.

1 2. (Previously presented): A backup processing method according to claim
2 1, wherein backup processing is executed by using the first or the second path, and when the
3 backup processing has been fully executed by one or both of the paths, regarding the backup
4 processing as successful.

3-5. (Canceled)

1 6. (Original): A backup processing method according to claim 2, further
2 including a step of storing information relating to the backup processing of the backed-up data.

1 7. (Original): A backup processing method according to claim 2, further
2 including a step of storing information relating to whether the backup processing of the backed-
3 up data was successfully executed.

1 8. (Original): A backup processing method according to claim 7, wherein
2 data stored relating to the successful execution of the backup processing is used to determine if
3 the data can be restored.

9-15. (Canceled)

1 16. (Previously presented): A backup processing method according to claim 1
2 further comprising terminating execution of the backup processing if the second path is not
3 secured.

1 17. (Currently amended): A computer managing a system which includes a
2 plurality of resources, comprising:
3 a processing unit; and
4 a network interface connectable to the plurality of resources via a network,
5 wherein the processing unit is operable to:
6 select resources in a usable state from the plurality of resources necessary
7 for backing up data stored in a storage system;
8 determine which of the selected resources are secure;
9 secure a first group ~~of from among~~ the selected resources ~~as to define~~ a
10 first path between the storage system and a first storage resource; and
11 secure a second group ~~of from among~~ the selected resources ~~as to define~~ a
12 second path between the storage system and a second storage resource different from the
13 first storage resource for backup;
14 initiate first backup processing via the first path by issuing a backup
15 instruction command set via the network interface to the first group of resources, the
16 backup instruction command set having a plurality of backup commands, each backup
17 command effective to backup a portion of the data stored in the storage system, wherein
18 one or more of the backup commands are executed to backup one or more portions of the
19 data via the first path;
20 detect if a problem occurs in the first path based on a result of execution of
21 one of the backup commands;
22 initiate a change from the first path to the second path if the problem is
23 detected; and
24 initiate second backup processing via the second path by issuing a
25 remaining portion of the backup instruction command set via the network interface to the
26 second group of resources, the remaining portion of the backup instruction command set
27 including those backup commands which had not been previously executed.

1 18. (Previously presented): A computer according to claim 17, wherein the
2 processing unit terminates execution of the backup processing if the second path is not secured.

1 19. (Previously presented): A computer according to claim 18, wherein
2 backup processing is executed by using the first path or the second path, and if the backup
3 processing has completely executed using either or both of the first path or the second path, then
4 regarding the backup processing as successful.

1 20. (Previously presented): A computer according to claim 19 further
2 comprising a memory,

3 wherein the processing unit stores information relating to whether the backup
4 processing of the backed-up data was successfully executed,

5 wherein the processing unit indicates to execute data restore based on the
6 information.

1 21. (Currently amended): A computer according to claim 17 further
2 comprising a memory,

3 wherein the data that is backed up is referred to as backed-up data and can be
4 stored in [[a]] the first storage resource in the first path or in [[a]] the second storage resource in
5 the second path,

6 wherein the processing unit stores backup information relating to the backup
7 processing of the backed-up data into the memory, the backup information indicating which
8 portions of the backed-up data are stored in the first storage resource and which portions of the
9 backed-up data are stored in the second storage resource,

10 wherein the processing unit initiates restoring of the backed-up data based on the
11 backup information, including performing steps of:

12 accessing the backup information in connection with a first portion of the
13 backed-up data and determining whether the first portion is stored on the first storage
14 resource or on the second storage resource;

25 wherein the first copy device sends portions of data from the storage system to a
26 first library system included in the first route in accordance with one or more of the backup
27 commands, and notifies the management computer if an error in the first route is detected,
28 wherein the management computer initiates execution backup processing via the
29 second route by issuing a remaining portion of the backup instruction command set to the second
30 copy device if the management computer receives an error notification from the first copy
31 device,
32 wherein the second copy device sends data from the storage system to a second
33 library system included in the second route in accordance with the remaining portion of the
34 backup instruction command set.

1 23. (Previously presented): A system according to claim 22, wherein the
2 management computer terminates execution of the backup processing if the second route is not
3 secured.

1 24. (Previously presented): A system according to claim 23, wherein backup
2 processing is executed by using the first route or the second route, and when the backup
3 processing has been successfully executed by at least one route, regarding the backup processing
4 as successful.

1 25. (Previously presented): A system according to claim 24,
2 wherein the management computer stores information relating to whether the
3 backup processing of the backed-up data was successfully executed,
4 wherein the management computer selects the first route based on the
5 information, indicates the copy device to execute data restore from a library system included in
6 the first route to the storage system via the first route.